AMENDMENTS TO THE CLAIMS

Claims 1-7 (Cancelled)

Claim 8. (Original) A polymerization method comprising reacting a geminally disubstituted olefin feed, a carbon monoxide feed and an ethylene feed under free radical polymerization conditions to form a geminally disubstituted olefin-carbon monoxideethylene polymer.

Claim 9. (Original) The method of claim 8 wherein the polymerization conditions range in temperature from about 50°C to about 300°C and range in pressure from about 500 psig to about 30,000 psig.

Claim 10. (Original) The method of claim 8 wherein the polymerization is conducted in the presence of a solvent.

Claim 11. (Original) The method of claim 8 wherein the polymerization is conducted in the presence of a free radical initiator.

Claim 12. (Original) The method of claim 11 wherein said free radical initiator is selected from one of organic peroxides and azo compounds.

Claim 13. (Original) The method of claim 8 wherein said polymer comprises a polymer having a number average molecular weight of from about 200 to about 150,000.

Claim 14. (Original) The method of claim 8 wherein said geminally disubstituted olefin comprises isobutylene.

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Claim 15. (Original) The method of claim 8 wherein said polymer comprises 1-40

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mole % of said geminally disubstituted olefin, 3-40 mole % of said carbon monoxide, and

5-80 mole % of said ethylene.

Claim 16. (Original) The polymerization method of claim 8 further comprising

reacting a feed containing monomer X with said geminally disubstituted olefin feed, said

carbon monoxide feed and said ethylene feed under free radical polymerization conditions

to form a geminally disubstituted olefin-carbon monoxide-ethylene-X polymer, wherein

said monomer X comprises a free radical polymerizable monomer or mixtures of

monomers.

Claim 17. (Original) The method of claim 16 wherein said monomer X is selected

from the group consisting of C₃ to C₃₀ alpha-olefins, C₃ to C₃₀ internal olefins, styrene,

styrene derivatives, unsaturated mono- and dicarboxylic acids of 3-20 carbon atoms, esters

of such unsaturated mono- and dicarboxylic acids, vinyl esters of saturated carboxylic acids

wherein the acid group has 1-18 carbon atoms, vinyl alkyl ethers wherein the alkyl group

has 1-18 carbon atoms, halogenated ethylene derivatives, methyl vinyl ketone, 1-

vinylpyrrolidone, acrylonitrile, acrylamide, acrolein, allyl alcohol, allyl chloride, allyl

acetate, and mixtures thereof.

Claim 18. (Original) The method of claim 16 wherein said mixtures of monomer X

are selected from one of raffinate I and raffinate II.

Claims 19-20 (Cancelled)